## 9. We know that weight is given by

From the list of Conversion Factors on the inside cover of the text we obtain the conversion that tells us that 1 lb = 4.448 N, so we can convert 588 N to pounds by multiplying the right hand side of the equation by unity expressed in the form

1 = 
$$1 \text{ lb} / 4.448 \text{ N}$$
  
W =  $(588 \text{ N}) (1 \text{ lb} / 4.448 \text{ N})$   
W =  $132.2 \text{ lb}$